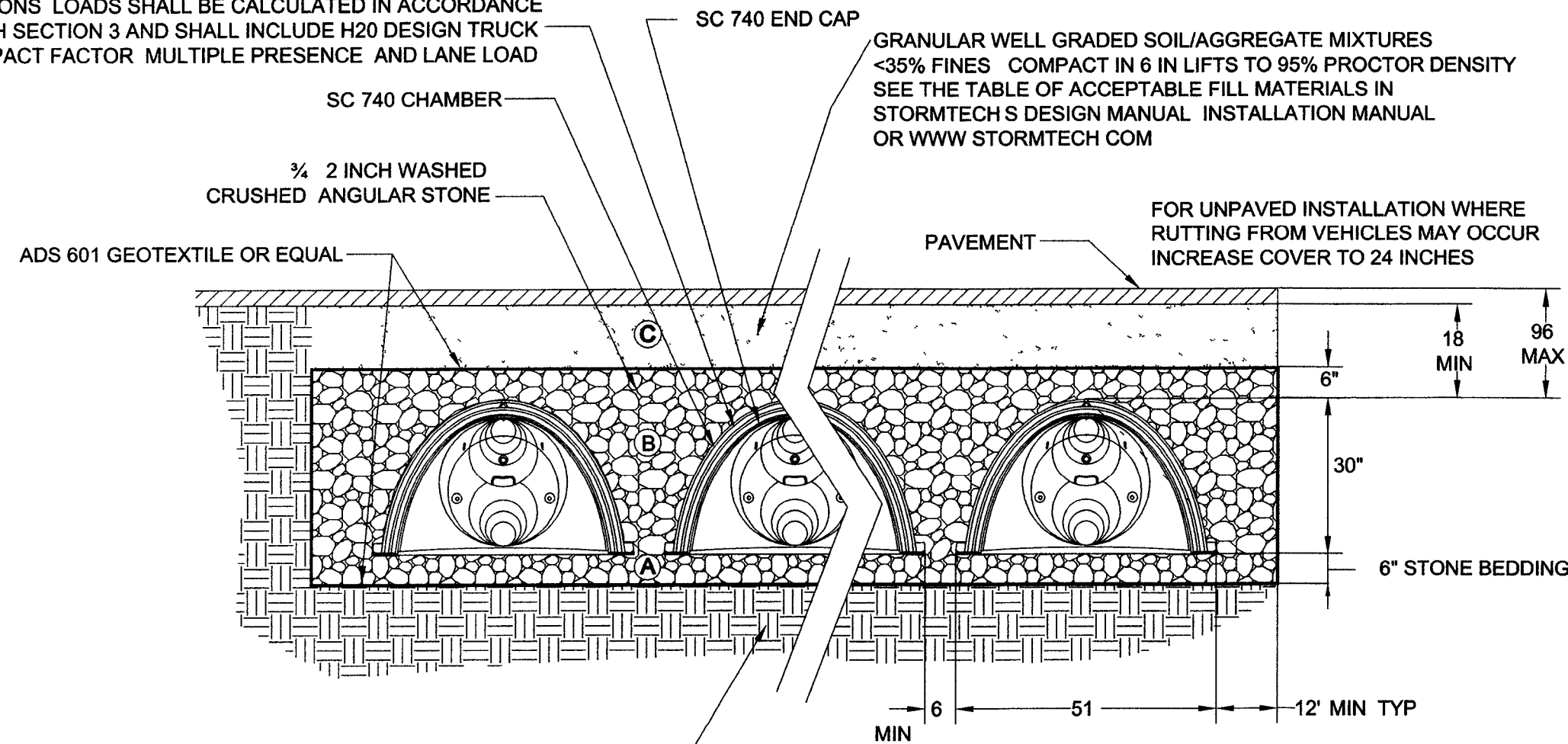
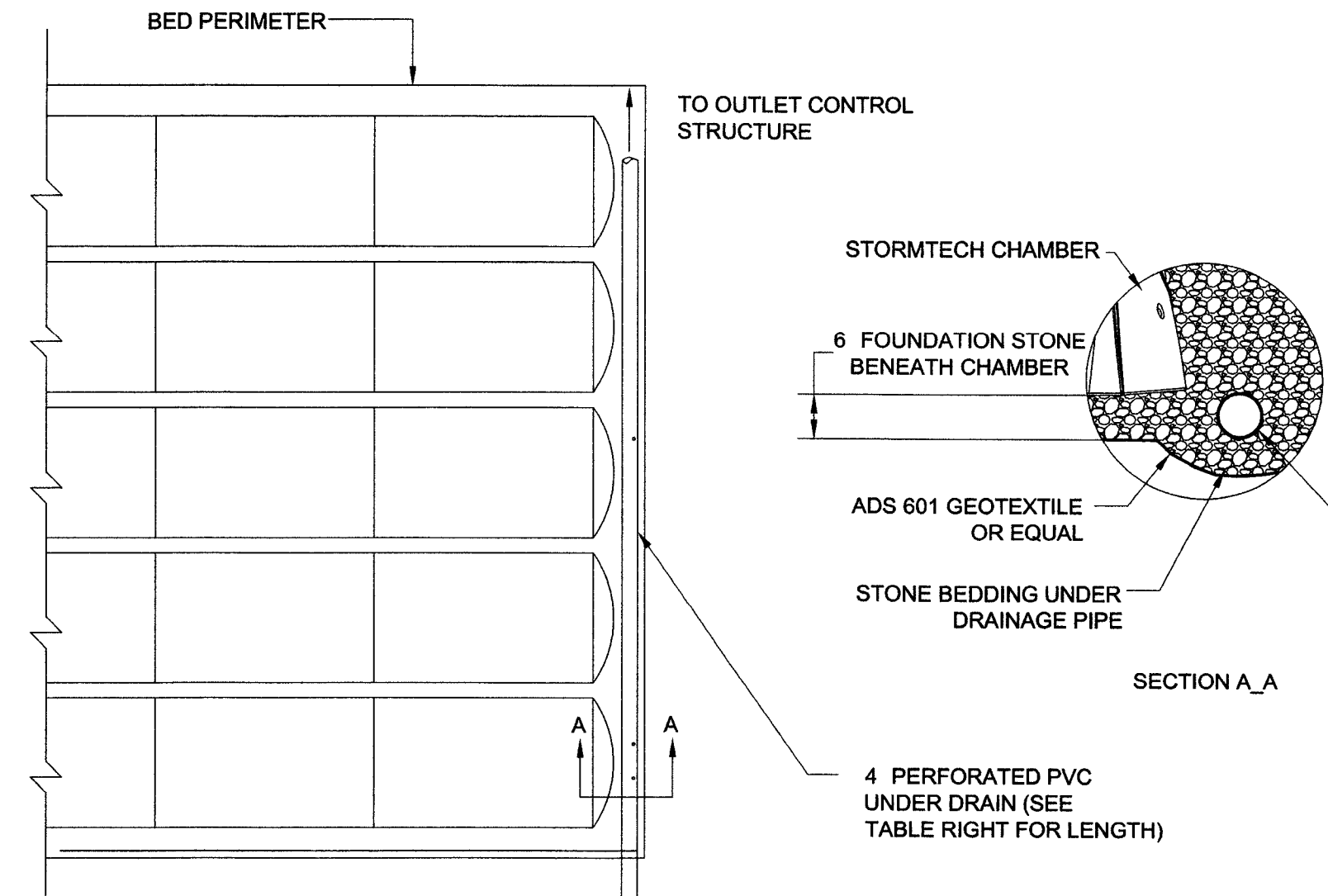


CHAMBERS SHALL MEET THE DESIGN REQUIREMENTS AND SAFETY FACTORS SPECIFIED IN SECTION 12.12 OF THE LATEST EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. LOADS SHALL BE CALCULATED IN ACCORDANCE WITH SECTION 3 AND SHALL INCLUDE H20 DESIGN TRUCK IMPACT FACTOR, MULTIPLE PRESENCE, AND LANE LOAD.



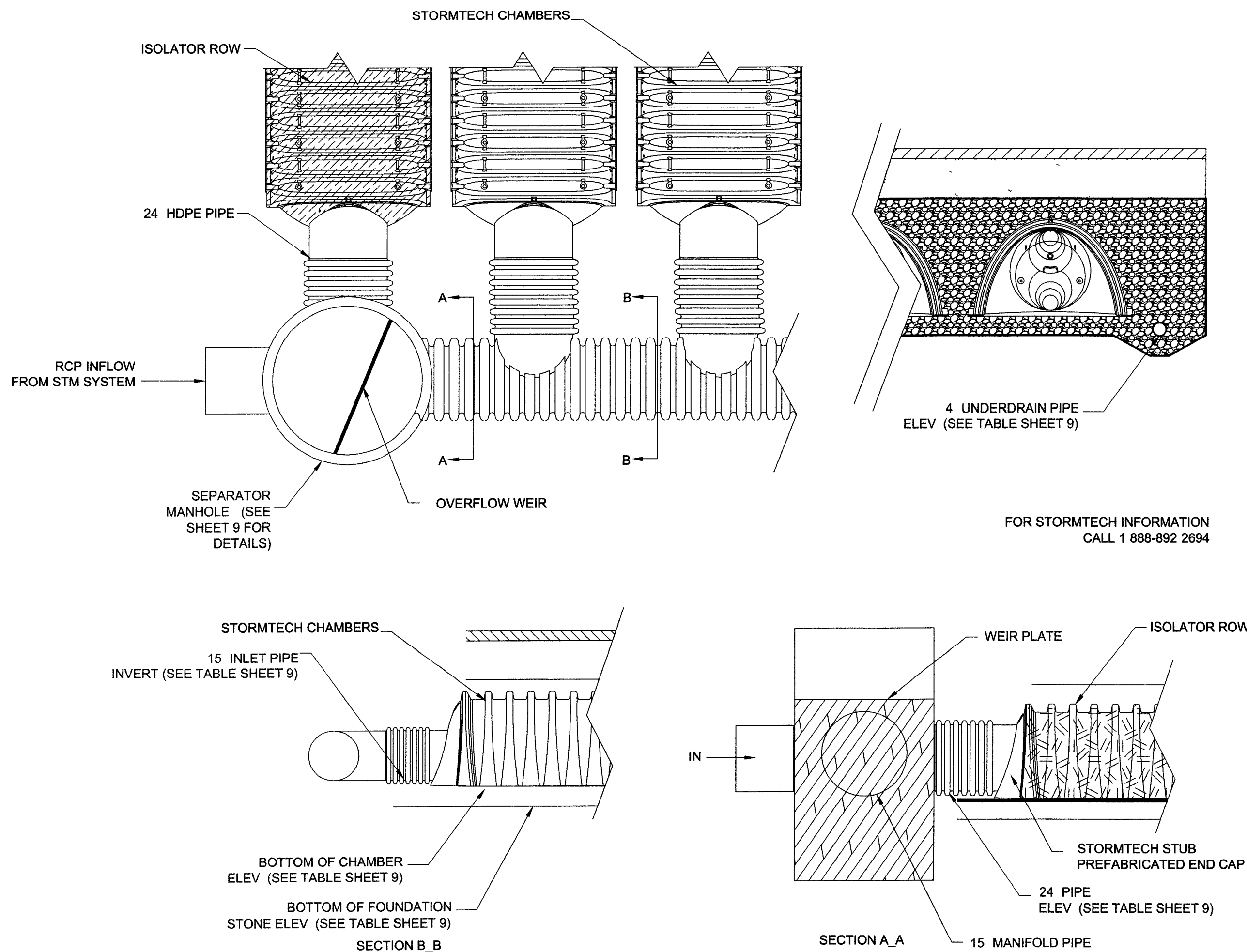
DESIGN ENGINEER IS RESPONSIBLE FOR ENSURING SUITABILITY OF SUBGRADE SOILS.
FOR STORMTECH INFORMATION
CALL 1-888-892-2694

SC-740 TYPICAL CROSS SECTION

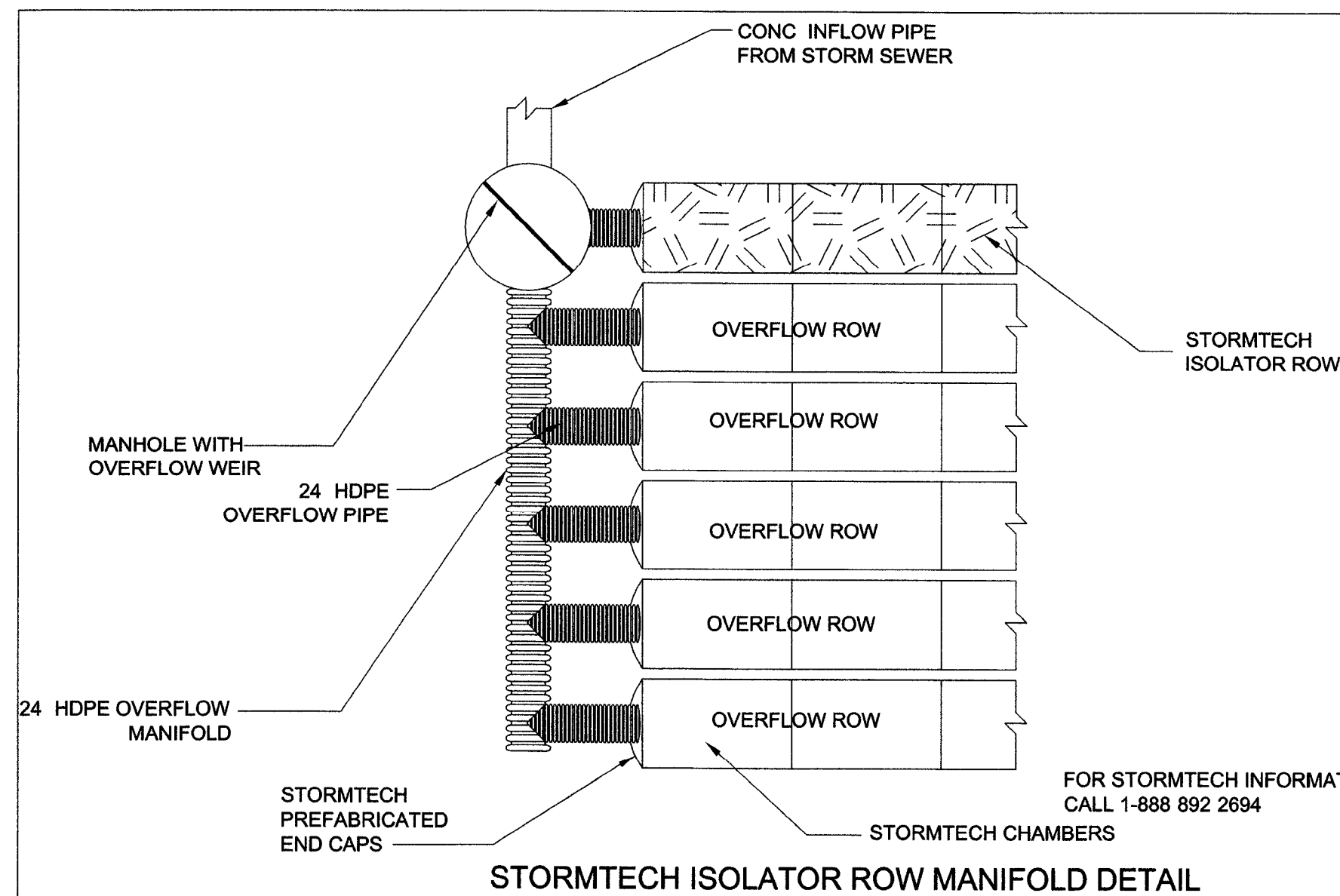


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CALL 1-888-892-2694

SC-740 UNDERDRAIN DETAIL

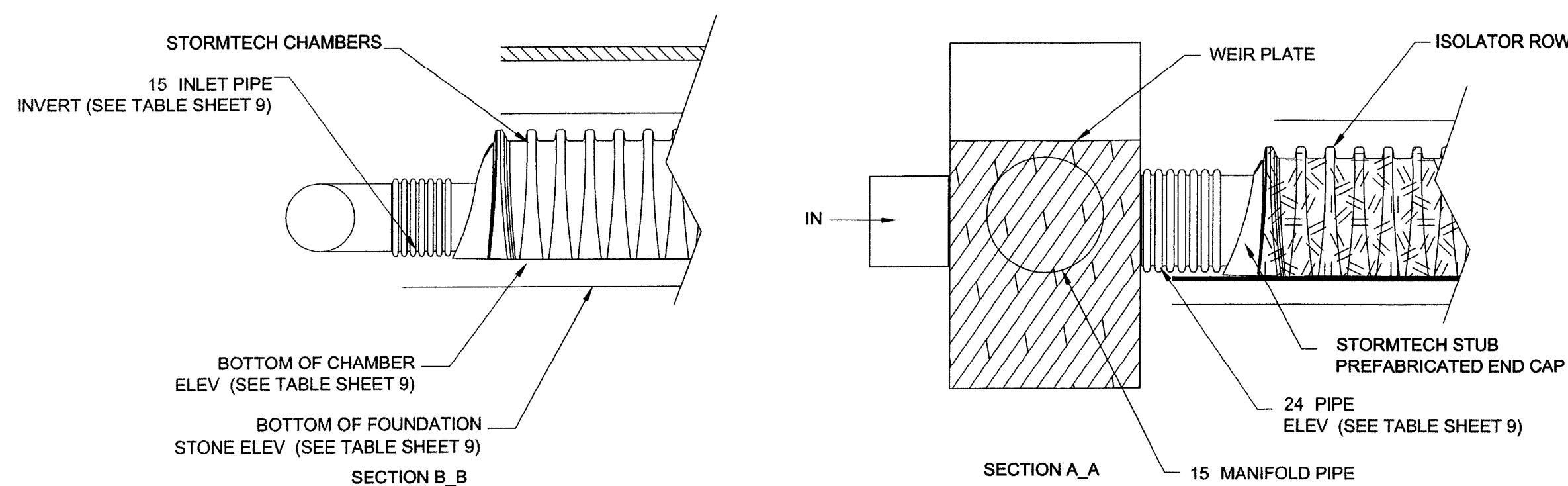


FOR STORMTECH INFORMATION
CALL 1-888-892-2694



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CALL 1-888-892-2694

STORMTECH ISOLATOR ROW MANIFOLD DETAIL



STORMTECH ELEVATIONS

ACCEPTABLE FILL MATERIALS
STORMTECH SC 740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION	AASHTO M145 DESIGNATION	COMPACTION/DENSITY REQUIREMENT
FILL MATERIAL FROM 18 TO GRADE ABOVE CHAMBERS	ANY SOIL/ROCK MATERIALS. NATIVE SOILS OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	N/A	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C FILL MATERIAL FOR 6 TO 18 ELEVATION ABOVE CHAMBERS (24' FOR UNPAVED INSTALLATIONS)	GRANULAR WELL GRADED SOIL/AGGREGATE MIXTURES <35% FINES	3 357 4 467 5 56 57 6 67 68 7 78 8 89 9 10	A 1 A-2 A-3	COMPACT IN 6" LIFTS TO A MINIMUM 95% STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12 000 LBS. DYNAMIC FORCE NOT TO EXCEED 20 000 LBS.
B EMBEDMENT STONE SURROUNDING AND TO A 6' ELEVATION ABOVE CHAMBERS	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN ¾" - 2 INCH	3 357 4 467 5 56 57	N/A	NO COMPACTION REQUIRED
A FOUNDATION STONE BELOW CHAMBERS	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN ¾" - 2 INCH	3 357 4 467 5 56 57	N/A	PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY.

PLEASE NOTE: THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE WASHED, CRUSHED, ANGULAR, NO. 4 STONE.

13.0 Inspection & Maintenance

13.4 ISOLATOR™ ROW INSPECTION

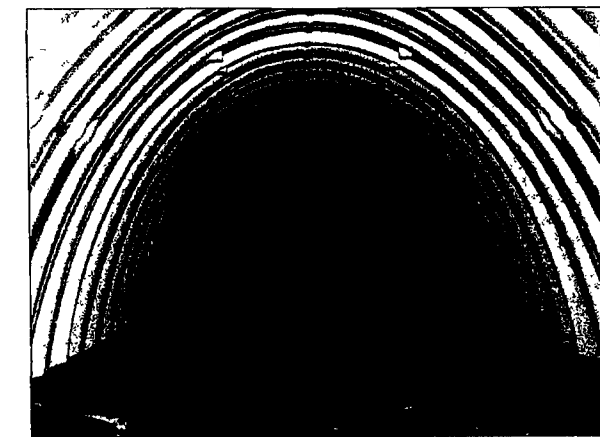
Regular inspection and maintenance are essential to assure a properly functioning stormwater system. Inspection is easily accomplished through the manhole or optional inspection ports of an Isolator Row. Please follow local and OSHA rules for a confined space entry.

Inspection ports can allow inspection to be accomplished completely from the surface without the need for a confined space entry. Inspection ports provide visual access to the system with the use of a flashlight. A stadia rod may be inserted to determine the depth of sediment. If upon visual inspection it is found that sediment has accumulated to an average depth exceeding 3 (76 mm) cleanout is required.

A StormTech Isolator Row should initially be inspected immediately after completion of the site's construction. While every effort should be made to prevent sediment from entering the system during construction, it is during this time that excess amounts of sediments are most likely to enter any stormwater system. Inspection and maintenance, if necessary, should be performed prior to passing responsibility over to the site's owner. Once in normal service, a StormTech Isolator Row should be inspected bi-annually until an understanding of the site's characteristics is developed. The site's maintenance manager can then revise the inspection schedule based on experience or local requirements.

13.5 ISOLATOR ROW MAINTENANCE

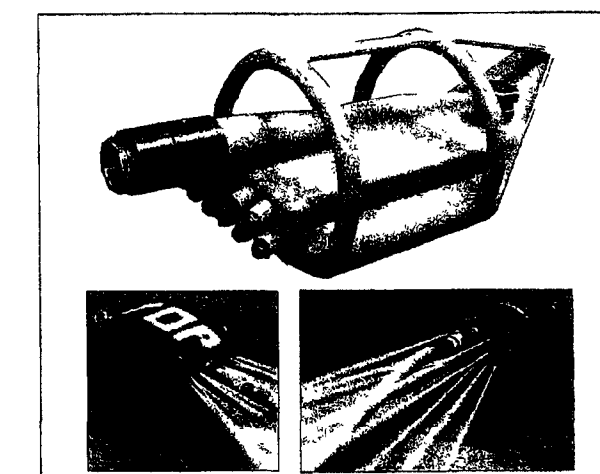
JetVac maintenance is required if sediment has been collected to an average depth of 3 (76 mm) or more inside the Isolator Row. The JetVac process utilizes a high pressure water nozzle to propel itself down the Isolator Row while scouring and suspending sediments. As the nozzle is retrieved, a wave of suspended sediments is flushed back into the manhole for vacuuming. Most sewer and pipe maintenance companies have vacuum/JetVac combination vehicles. Fixed nozzles designed for culverts or large diameter pipe cleaning are preferable. Rear-facing jets with an effective spread of at least 45 (1140 mm) are best. Most JetVac reels have a minimum of 400 feet (122 m) of hose allowing maintenance of an Isolator Row up to 50 chambers long. The JetVac process shall only be performed on StormTech Rows that have AASHTO class 1 woven geotextile over their angular base stone.



Looking down the Isolator Row



A typical JetVac truck. (This is not a StormTech product.)

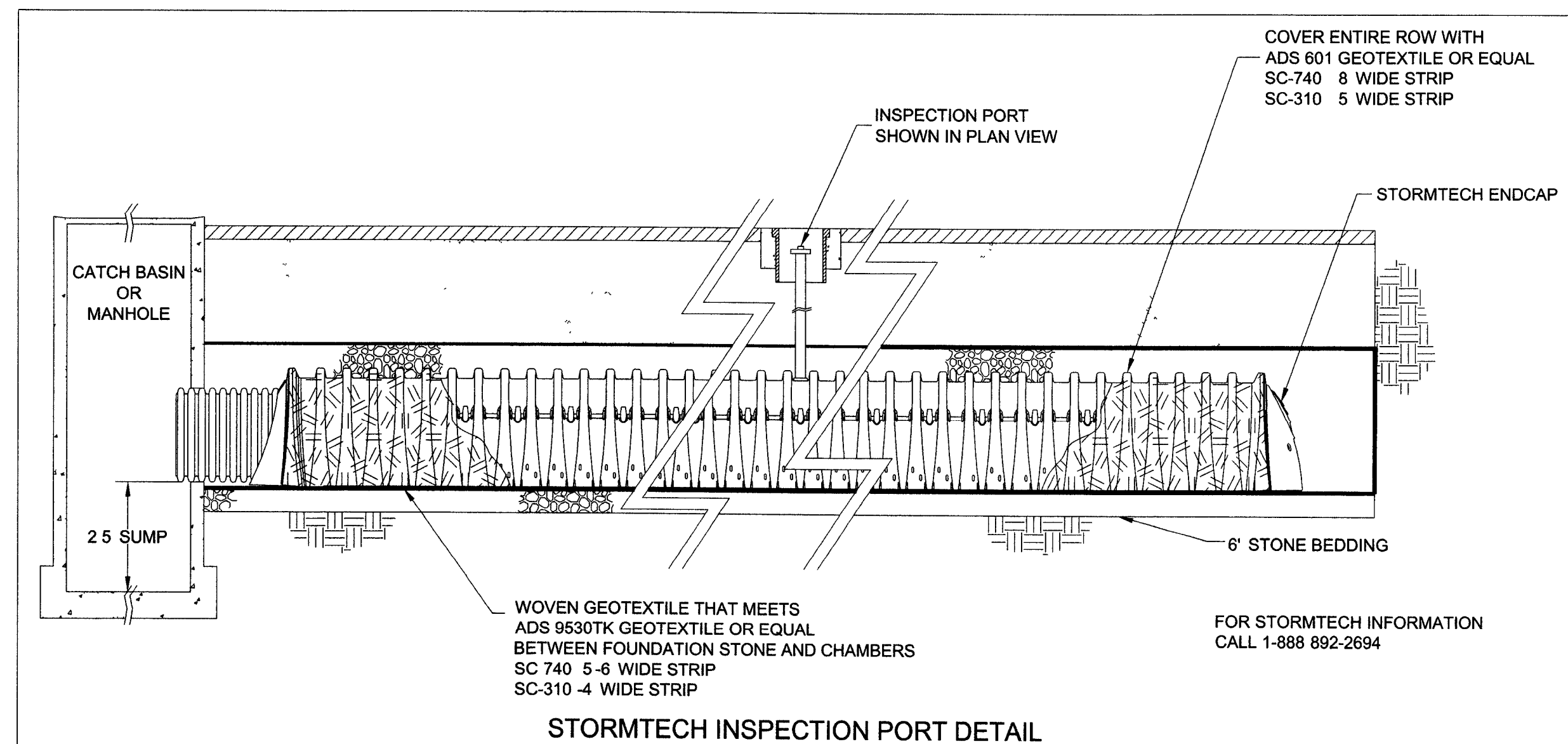


Examples of culvert cleaning nozzles appropriate for Isolator Row maintenance. (These are not StormTech products.)

22 Call StormTech at 860 629 6188 • 888.892.2694 or visit our website at www.stormtech.com for technical and product information.

NOTES

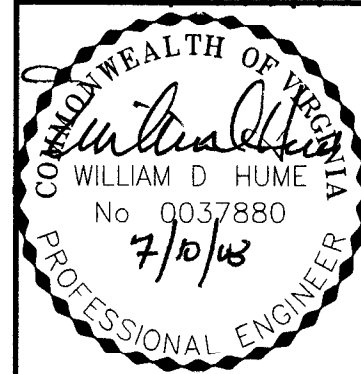
- ALL DESIGN SPECIFICATIONS FOR STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE STORMTECH DESIGN MANUAL.
- THE INSTALLATION OF STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
- THE CONTRACTOR IS ADVISED TO REVIEW AND UNDERSTAND THE INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION. CALL 1-888-892-2694 OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
- CHAMBERS SHALL MEET THE DESIGN REQUIREMENTS AND SAFETY FACTORS SPECIFIED IN SECTION 12.12 OF THE LATEST EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. LOADS SHALL BE CALCULATED IN ACCORDANCE WITH SECTION 3 AND SHALL INCLUDE H20 DESIGN TRUCK IMPACT FACTOR, MULTIPLE PRESENCE, AND LANE LOAD.



FOR STORMTECH INFORMATION
CALL 1-888-892-2694

STORMTECH INSPECTION PORT DETAIL

NO.	REVISION	DATE
1	REMOVED MEETING HALL	7/10/08
2	REV. 2ND REVIEW COMMENTS	



SCALE: N/A
DATE: 11-16-07
DRAWN BY: PJC/BP
DESIGNED BY: PJC
REVIEWED BY: MS
PROJ. NO. 220550002

SHEET

9

OF 18